

**HUNTERS POINT SHIPYARD  
RESTORATION ADVISORY BOARD (RAB) - MEETING AGENDA  
THURSDAY, 22 MAY 2003**

**Day/Date:**  
Thursday – 22 May 2003  
**Time:**  
6:00 p.m. to 8:10 p.m.

**Location:**  
Dago Mary's Restaurant  
Hunters Point Shipyard  
Building # 916  
San Francisco

<b>Facilitator:</b>		<b>Marsha Pendergrass</b>
<b>Time</b>	<b>Topic</b>	<b>Leader</b>
6:00 p.m. – 6:10 p.m.	Welcome/Introductions/Agenda Review	Marsha Pendergrass <i>Facilitator</i>
6:10 p.m. – 6:15 p.m.	Approval of Meeting Minutes from 24 April 2003 RAB Meeting • Action Items	Marsha Pendergrass
6:15 p.m. – 6:20 p.m.	Navy Announcements	Keith Forman <i>Navy Co-chair</i>
	Community Co-chair Report/Other Announcements • Co-chair nominations	Lynne Brown <i>Community Co-chair</i>
6:20 p.m. – 7:00 p.m.	Radiological Program Update	Steve Doremus <i>Radiological Affairs Support Office (RASO)</i>
7:00 p.m. – 7:10 p.m.	<b>BREAK</b>	
7:10 p.m. – 7:25 p.m.	Radiological Program Update (cont.)	Steve Doremus
7:25 p.m. – 7:40 p.m.	US EPA Hunters Point Shipyard Scan Van Presentation	Steve Dean <i>US EPA Representative</i>
7:40 p.m. – 8:00 p.m.	Subcommittee Reports	Subcommittee Leaders
8:00 p.m. – 8:10 p.m.	Future Agenda Topics/ Open Question & Answer	Marsha Pendergrass
8:10 p.m.	Adjournment	Marsha Pendergrass

HPS web site: <http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm>

RAB Navy Contact: Mr. Keith Forman (619) 532-0913 or (415) 515-6216

**HUNTERS POINT SHIPYARD**  
**RESTORATION ADVISORY BOARD MEETING MINUTES**  
**24 APRIL 2003**

These minutes summarize the discussions and presentations from the Restoration Advisory Board (RAB) meeting held from 6:00 P.M. to 8:35 P.M., Thursday, 24 April 2003 at Dago Mary's Restaurant (Building #916 at the Shipyard). A verbatim transcript was also prepared for the meeting and is available in the Information Repository for Hunters Point Shipyard (HPS) and on the Internet at [www.efds.w.navy.mil/Environmental/HuntersPoint.htm](http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm). The list of agenda topics is provided below. Attachment A provides a list of attendees. Attachment B includes action items that were requested and/or committed to by RAB members during the meeting.

**AGENDA TOPICS:**

- 1) Welcome/Introductions/Agenda Review
- 2) Approval of Meeting Minutes from 27 March 2003 RAB Meeting
- 3) Navy Announcements/Community Co-chair Reports/Other Announcements
- 4) Radiological Program Update
- 5) EPA Scanner Van Presentation
- 6) Subcommittee Reports
- 7) Future Agenda Topics/Open Question & Answer
- 8) Adjournment

**MEETING HANDOUTS:**

- Agenda for 24 April 2003 RAB Meeting/Minutes from 27 March 2003 RAB Meeting
  - Includes: Table 1, RAB Member Roll-Call Sheet; and
  - Action Items from 27 March 2003 RAB Meeting
- PowerPoint Presentation, Hunters Point Shipyard HRA Update, 22 April 2003
- Handout, EPA Scanner Van Report, 24 April 2003
- Radiological Scanner Van Survey, Hunters Point Naval Shipyard, California, September 9-12, 2002
- EPA Fact Sheet, Ionizing Radiation Series No. 1, General Description, September 1990
- HPS Environmental Cleanup Newsletter, October-December 2002
- Meeting Minutes, HPS RAB Radiological Subcommittee, 26 March 2003
- Meeting Minutes, HPS RAB Membership & Bylaws Subcommittee, 8 April 2003
- Meeting Minutes, HPS RAB Technical (Review) Subcommittee, 10 April 2003
- Flyer, Arc Ecology, Radiation ... & the Hunters Point Shipyard
- Flyer, San Francisco Human Rights Commission, Workshop: Energy Savings & Energy Efficiency

**Welcome / Introductions / Agenda and Meeting Minutes Review**

Marsha Pendergrass, facilitator, called the meeting to order at 6:05 P.M. All in attendance made self-introductions. Ms. Pendergrass began the meeting with an agenda review and asked if there were any changes or modifications. No changes were made. Ms. Pendergrass then asked if there were any changes to the minutes; of which there were none. The meeting minutes were approved.

Ms. Pendergrass reviewed the Action Items contained in the March minutes and asked for a status of each item. The items were completed to the satisfaction of the RAB.

1 **Navy and Community Co-chair Reports/Other Announcements**

2 Keith Forman, Navy Co-Chair, announced that the Updated Community Relations Plan (CRP) is  
3 nearing completion and currently scheduled to be published in draft form this coming June. He  
4 added that a CRP Subcommittee meeting will be scheduled after the report comes out.  
5 Mr. Forman also announced that the Navy is planning a public meeting and RAB subcommittee  
6 presentation on the upcoming five-year review of the Parcel B Record of Decision (ROD). The  
7 report will be coming out in July. Mr. Forman said that Jackie Lane, EPA, had a brief  
8 announcement. Ms. Lane gave a brief update on the Technical Assistance Grant and said that  
9 two applications have been received and she has worked with both applicants to complete and  
10 revise the applications, where necessary. After the revised applications are completed the EPA  
11 expects to make a selection in July. Concluding his announcements, Mr. Forman stated that the  
12 Navy and their contractors, are available to attend subcommittee meetings provided the request is  
13 made ahead of time.

14 Lynne Brown, RAB Community Co-chair, asked for information from New World Technologies  
15 and Foster Wheeler regarding radiological remediation and surveying. The request was put as an  
16 action item.

17 **Reminder: The next RAB meeting will be held from 6:00 to 8:10 P.M., Thursday evening,**  
18 **22 May 2003 at Dago Mary's Restaurant, Building #916 on the Shipyard.**

19 **US Navy RASO Presentation**

20 Mr. Forman introduced Laurie Lowman, US Navy Radiological Affairs Office (RASO).  
21 Mr. Forman said that tonight's RASO presentation would have two major components; an update  
22 on the Historical Radiological Assessment (HRA) and a detailed listing of activities, surveys,  
23 and cleanup conducted by New World Technology. The presentation will be longer than listed  
24 on the Agenda and said that the EPA presentation, scheduled for later in the evening, would be  
25 postponed until next month. Ms. Lowman initiated her presentation with an update on the status  
26 of the HRA. She stated that all of the archive review has been completed. She said that 2,100  
27 documents that have been obtained and scanned into PDF files. To date, nearly 1,600 of those  
28 have been reviewed.

29 Regarding the interviews, Ms. Lowman said that there have been 206 responses to the newspaper  
30 notice placed earlier this year. Of the 161 of those were qualified for telephone screening, RASO  
31 has contacted 144 to date. Ms. Lowman then provided demographics about the interviewees.  
32 Ms. Lowman added that 26 interviewees have been selected for face-to-face interviews.

33 Ms. Lowman said that the near-term goal for the HRA is to complete the in-depth records  
34 review, enter document summaries, draft the updated HRA and incorporate all the responses to  
35 comments from the previous draft. In June and July, the Navy will have time for an internal  
36 review and time to incorporate the comments prior to general distribution in August.

37 Ms. Lowman also highlighted some significant new information discovered as a result of the  
38 research for the HRA. She provided a great deal of information about the atomic weapons testing  
39 at Bikini Atoll, known as OPERATION CROSSROADS. Ms. Lowman discussed the nature of the  
40 weapons testing and how research into decontamination of the ships was integral to the history of  
41 Hunters Point Shipyard. As many as 61 support ships and 18 target ships were brought to HPS.  
42 The support ships were cleaned and decontaminated before being returned to service. The 18  
43 target ships were more heavily contaminated and resided at the Shipyard for much longer than  
44 the support ships. Eighteen of the target ships came to HPS under their own power and 6 were  
45 towed. Ms. Lowman said that this distinction was important since the ships that were towed had  
46 greater levels of residual contamination than the ships that sailed under their own power. Three

1 ships, the Independence, Gasconade, and the Crittenden stayed at HPS and were used for  
2 experiments and decontamination efforts. RASO is currently trying to gather additional  
3 information about the OPERATION CROSSROADS ships as well as adding new areas of the Shipyard  
4 to the Phase 5 investigation as a result of knowing where the CROSSROADS ships came in and  
5 where decontamination efforts were conducted.

6 Ms. Pendergrass opened the floor to questions.

7 Georgia Oliva, RAB member, asked if sandblasting was used for decontamination efforts.  
8 Ms. Lowman replied that it was. Ms. Oliva followed by asking which dry docks were used.  
9 Ms. Lowman replied that Dry Dock 6, 3, and 4 were used. Ms. Oliva also asked about the other  
10 ships that were intentionally sunk at sea. Ms. Lowman replied that they were sunk off the  
11 Farallons. Lani Asher, RAB member, asked what additional areas were going to be investigated  
12 and the names of the isotopes. Ms. Lowman replied that additional areas include the submarine  
13 piers at Parcel B, additional dry docks near Dry Dock 4, and the Gun Mole pier. The atomic  
14 weapons were plutonium and therefore the isotopes are cesium-137 and strontium-90.

15 Kevyn Lutton, RAB member, asked about the sailors aboard the target ships during the weapons  
16 testing. Ms. Lowman replied that the ships were anchored and evacuated well before the start of  
17 the tests. Depending on the radiation levels on the ships after detonation, the ships were either  
18 re-boarded or towed out of the area. Keith Tisdell, RAB member, asked how a ship is towed  
19 without first boarding it. Ms. Lowman replied that there were no people aboard the towed ships.  
20 J.R. Manual, RAB member, added that it is not necessary to board a ship in order to tow it.

21 Karen Pierce, RAB member, asked if the Navy has records of the health status of any of the  
22 personnel involved in OPERATION CROSSROADS. Ms. Lowman replied that the Atomic Veterans  
23 Association may have information on their web site.

24 Break called (6:55 P.M.)

#### 25 **RASO Presentation (cont.)**

26 Ms. Pendergrass called the meeting back to order and resumed taking questions from the floor.  
27 Ms. Asher asked a follow-up question about former personnel who lived on the Shipyard. She  
28 also asked if there were any animals onboard the target ships during the weapons testing.  
29 Ms. Lowman replied that no former personnel living on the Shipyard had contacted RASO and  
30 therefore no former Shipyard residents have been interviewed. She also replied that there had  
31 been animals onboard at the time of the testing and that they were packaged and disposed of  
32 properly.

33 Ms. Lutton asked if the Navy ever found a way to successfully decontaminate ships.  
34 Ms. Lowman replied that they had and that the method depends on the surface to be treated.  
35 Ahimsa Sumchai, RAB member, stated that there is evidence that personnel participating in  
36 OPERATION CROSSROADS suffered adverse health effects, including increased cancer rates and  
37 infertility. She also stated that she was puzzled why the Navy would subject some 79 ships to an  
38 atomic blast for the purposes of determining decontamination methods. Ms. Lowman replied that  
39 she has referred some family members and interviewees to the agencies for atomic veterans. She  
40 also clarified that the purpose of OPERATION CROSSROADS was to test the weapons and how best  
41 to protect personnel; decontamination was a secondary experiment.

#### 42 **EPA Scanner Van Presentation**

43 Claire Trombadore, US EPA, made a very brief statement about the Scanner Van presentation  
44 that was scheduled for this evening. She said that the presenter, Steve Dean, was not able to

1 attend the evening's RAB meeting but has committed to attend the 22 May 2003 RAB meeting.  
2 She did report that the Scanner Van made a drive through survey of Parcel A the week of 9  
3 September 2002 and that the report of that survey was released on 10 April 2003. Copies of the  
4 report were available. Mr. Dean will be at the 22 May RAB meeting to provide a more thorough  
5 presentation.

## 6 Subcommittee Updates

### 7 Risk Review and Health Assessment Subcommittee (Karen Pierce, Leader)

8 Ms. Pierce stated that the April subcommittee meeting had been cancelled so no minutes were  
9 prepared. The next meeting of the subcommittee will be at 5:30 P.M., May 20<sup>th</sup>, at the Bayview  
10 Advocates office, located at 5021 Third Street.

### 11 Membership & Bylaws Subcommittee (Keith Tisdell, Leader)

12 Mr. Tisdell stated that the subcommittee has approved the RAB Membership Application of  
13 Harry Shin. Mr. Shin, however, was not present at this evening's RAB meeting to be approved  
14 for Board membership so that motion will carry-over to the next month.

15 Mr. Tisdell reiterated from last month that the subcommittee will begin enforcing the two-year  
16 term limits for community RAB members. He said that the subcommittee would work to catch  
17 up past-due RAB members at the next RAB meeting.

18 A bit later in the evening Marie Franklin, RAB member, asked a question of the Membership &  
19 Bylaws Subcommittee regarding revisions of the RAB Bylaws. She stated, and made a motion,  
20 that the Bylaws should be revised only once per year, in December. Ronald Keichline, ITSI,  
21 noted that in the Subcommittee meeting minutes there was a conditional motion to revise the  
22 Bylaws only once per year "in the month following the election of the Community Co-chair."  
23 Mr. Tisdell added that he had chosen to make that motion at a future RAB meeting. An  
24 amendment to Ms. Franklin's motion was advanced to approve revisions to the Bylaws in the  
25 month following the Community Co-chair election. The amendment was accepted and the  
26 motion carried. Mr. Keichline announced that draft revised HPS RAB Bylaws need to be  
27 prepared and mailed to RAB members one week prior to the May RAB meeting for formal  
28 approval. Ms. Pendergrass clarified that Ms. Franklin's motion is an amendment to the Bylaws  
29 and as such, requires one week notice prior to voting.

30 The next meeting of the Membership & Bylaws Subcommittee will be at 6:00 P.M., May 13<sup>th</sup>, at  
31 the Anna Waden Branch Library.

### 32 Radiological Subcommittee (Ahimsa Sumchai, Leader)

33 Dr. Sumchai said that the March subcommittee minutes have been prepared and are available as  
34 a handout. She said the Mr. Dean from the US EPA and Mr. Vincent from the Army Corps of  
35 Engineers had been invited to attend the April subcommittee meeting but were unable to attend.  
36 An initiation to the May subcommittee meeting has been extended. She said it is very important  
37 to keep the pressure on the Army Corps to follow up on the Formerly Used Defense Sites  
38 (FUDS). Dr. Sumchai also commented on the Responses to Comments on the draft HRA. She  
39 concluded her presentation with one final comment, which was the California Department of  
40 Health Services' release for unrestricted use of Building 816 and 821 on Parcel A could be  
41 legally challenged on grounds that the NRC standard, which is lower than the EPA standard, is  
42 being challenged in court.

43 Dr. Sumchai said the next meeting of the subcommittee will be on May 21<sup>st</sup> from 6:00-8:00 P.M.  
44 at The Greenhouse located at 4919 Third Street at Palou.

1 Economic Development Subcommittee (Maurice Campbell, Leader)

2 Mr. Mason gave the report for the Economic subcommittee. He stated that the Economic  
3 Subcommittee meeting was held on April 9<sup>th</sup>. Mr. Mason stated that the main topic was the past  
4 contracting performance for the local community at 94124. The 100 most recent task orders put  
5 out by the Navy had very little in the way of community participation. The subcommittee is  
6 looking into ways to solve this problem.

7 Mr. Mason said the next meeting of the subcommittee will be determined at a later date.

8 Technical Review Subcommittee (Lea Loizos, Leader)

9 Lea Loizos, RAB member, indicated that copies of the April 10<sup>th</sup> minutes were available as a  
10 handout. The Barbara Bushnell, RAB member, had invited a speaker from the Public Utilities  
11 Commission to give a presentation on the feasibility study for decentralizing wastewater  
12 treatment at the Shipyard. Ms. Loizos said that the PUC might be invited to a future RAB  
13 meeting to give a similar presentation.

14 Ms. Loizos said that the next meeting of the subcommittee will be on May 7<sup>th</sup> at 6:00 P.M. at the  
15 Anna Waden Library.

16 RASO Presentation (cont.), MARSSIM Update

17 At this point in the evening, Ms. Pendergrass stated that the current Agenda called for the  
18 meeting to end in approximately 10 minutes. Mr. Manual made a motion to extend the meeting  
19 to allow Ms. Lowman to give the second half of her presentation, which was a building by  
20 building overview of radiological work at the Shipyard. An additional motion was made to have  
21 RASO make a presentation at the May RAB meeting. That motion carried and will be added to  
22 the May agenda. The motion to extend the current RAB meeting also carried.

23 After a 10 minute recess, Ms. Pendergrass called the meeting back to order. After determining  
24 that the RAB still had enough members present for quorum, Ms. Pendergrass gave the floor to  
25 Ms. Lowman. Being considerate of the time limitations, Ms. Lowman gave a quick summary  
26 briefing of the Multiagency Radiological Survey and Site Investigation Manual (MARSSIM)  
27 radiological surveys from the Phase 5 investigation.

28 She stated that Parcel A is considered complete. During surveys of Parcel B, no contamination  
29 was found and that report is considered 98 percent complete. (Ms. Lowman explained that 95  
30 percent complete means that all of the survey work is complete and are compiling the data for  
31 statistical analysis. A report that is 98 percent means that the analysis has been completed and  
32 the report is in the process of internal review.) She continued a building-by-building run down of  
33 the status. She said that Building 332 was found to have elevated levels of cesium-137 and  
34 europium-152. Dr. Sumchai asked for clarification regarding the term "elevated" and asked if  
35 that meant above background levels. Ms. Lowman replied that it meant above 0.13 pico curie per  
36 gram (for cesium), which is the level set by the EPA for Preliminary Remediation Goals (PRGs).  
37 She added that background levels vary from location to location.

38 Continuing her summary, Ms. Lowman said that Building 366 is one building where surveys are  
39 ongoing. The survey is approximately 40 percent complete. A number of other sites were  
40 mentioned where radiological surveys indicated elevated levels of radiation. Ms. Lowman  
41 explained where they were and whether they were remediated or found to be at levels below the  
42 PRGs. As an example, she said Building 411 was found with slightly elevated levels of radium  
43 but determined to be within the release limit. She gave a summary of additional buildings but  
44 called attention to Building 253 on Parcel C. She said RASO and New World Technology are

1 working extensively on that building, and contamination has been found on every floor.  
2 Ms. Lowman said that there is a lot of work remaining to be completed on that building. Another  
3 site Ms. Lowman called attention to was Building 704 and the animal pens. She said that they  
4 found this site on an old map and it is reported to be where NRDL stored radioactive material  
5 and animals before the location was relocated to Building 500. New World has not started their  
6 survey of this site so it is considered zero percent complete right now. Ms. Lowman provided a  
7 summary of many of the buildings on Parcel E and then concluded with the Shipyard shoreline.  
8 She reported that the Navy has conducted a characterization of the shoreline but has not started  
9 remediation yet.

10 Ms. Oliva, referring to a presentation by Cdr. Fragosso earlier in the year, asked if the  
11 remediation at Building 253 included tenting the area. Ms. Lowman replied that she was unaware  
12 of a commitment to tent the remediation site and referred to the verbatim transcript from that  
13 meeting. The transcript indicated that Cdr. Fragosso stated that the type of remediation in  
14 question is *normally* (emphasis added) tented to contain the dust but didn't state that this would  
15 be required at Building 253. Ms. Lowman added that the work at Building 253 is currently being  
16 done indoors and all material is being wrapped before it leaves the building. Ms. Oliva requested  
17 that Ms. Lowman check on the air monitoring results for the rooftop scraping that was recently  
18 completed, and Ms. Lowman replied that she would have that information at the May RAB  
19 meeting.

#### 20 Other Discussions/Topics

21 The following items were also discussed at the RAB meeting. A verbatim account of these  
22 discussions is included in the Information Repository for HPS and may also be found on the HPS  
23 web page at [www.efds.w.navy.mil/Environmental/HuntersPoint.htm](http://www.efds.w.navy.mil/Environmental/HuntersPoint.htm)

- 24 • On behalf of Ms. Loizos, Ms. Lowman announced an Arc Ecology meeting at the Milton  
25 Meyers Auditorium on April 30<sup>th</sup> to discuss radiation and the state of the HRA at Hunters  
26 Point.

#### 27 Future Agenda Topics

28 There were no further announcements and two future agenda topics presented (noted above). The  
29 meeting was adjourned at 8:35 P.M.

30 **Reminder: The next RAB meeting will be held from 6:00 to 8:10 P.M., Thursday evening,**  
31 **22 May 2003 at Dago Mary's Restaurant, Building #916 on the Shipyard.**

## ATTACHMENT A

24 APRIL 2003 - RAB MEETING  
LIST OF ATTENDEES

Name	Association
1. Christine M. Niccoli	Niccoli Reporting, court reporter
2. Marsha Pendergrass	Pendergrass & Associates
3. Quijuan Maloof	Pendergrass & Associates
4. Keith Forman	Navy RAB Co-chair
5. Laura L. Lowman	Navy, RASO
6. Richard Lowman	Navy, RASO
7. Martin Offenhauer	Navy
8. Lee Saunders	Navy
9. Peter Stroganoff	Navy
10. Lynne Brown	RAB Community Co-chair, Communities for a Better Environment, CFC
11. Lani Asher	RAB member, Artist on the Shipyard
12. Barbara Bushnell	RAB member, ROSES and alternate for Charles Dacus
13. Marie J. Franklin	RAB member, Shoreview Environmental
14. Helen Jackson	RAB member, All Hallows Gardens
15. Lea Loizos	RAB member, ARC Ecology
16. Kevyn Lutton	RAB member, resident
17. J.R. Manuel	RAB member, JRM Associates, India Basin resident
18. Jesse Mason	RAB member, BVHP Community Advocates
19. James Morrison	RAB member, Environmental Technology
20. Georgia Oliva	RAB member, CBE, Shipyard Artist
21. Sulu Palega	RAB member, Hunters Point Boys and Girls Club
22. Karen Pierce	RAB member, Bayview Advocates
23. Melita Rines	RAB member, India Basin Neighborhood Association
24. Ahimsa Sumchai	RAB member, Bayview-Hunter Point Health & Env. Resource Center.
25. Keith Tisdell	RAB member, resident
26. Caroline Washington	RAB member, Network for Elders
27. Amy Brownell	RAB member, San Francisco Department of Public Health
28. Jacqueline Ann Lane	RAB member, US EPA
29. Julie Menack	RAB member, Regional Water Quality Control Board
30. Claire Trombadore	RAB member, US EPA
31. Arvind Acharya	Innovative Technical Solutions, Inc.
32. Sy Allen	Renaissance Ex-Offender, CFC, CAC
33. Leah Attwood	UC Berkeley student
34. Esther Blanchard	ROSES
35. Andrew Bozeman	Southeast Sector Community Development Corp.
36. Huong Bui	UC Berkeley student
37. Deborah Carroll	The Point
38. Bert Combs	Bay Storage
39. Michael Conner	New World Technology
40. Francisco Da Costa	Environmental Justice Advocacy
41. Doug Davenport	Tetra Tech EM Inc.
42. Daryl DeLong	New World Environmental, Inc.
43. Cara Deiner	UC Berkeley student
44. Erin Donley	UC Berkeley student
45. Denise Grab	UC Berkeley student
46. Bob Hocker	Lennar/BVHP
47. Carolyn Hunter	Tetra Tech EM Inc.
48. Espinola Jackson	Muwekma Ohlone
49. Joni Jorgensen-Risk	Innovative Technical Solutions, Inc.
50. Ronald Keichline	Innovative Technical Solutions, Inc.



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|---------------------|---|
| 51. Tom Lacey       | Bay Storage                               |
| 52. Charles Pardini | Levine-Fricke for Lennar                  |
| 53. Sue Stake       | Bay Storage                               |
| 54. Michael Strauss | Communities for a Better Environment      |
| 55. Giacomo Ursino  | Dago Mary's Restaurant                    |
| 56. Peter Wilsey    | San Francisco Department of Public Health |
| 57. Sam Wright      | Department of Environment                 |

ATTACHMENT B

24 APRIL 2003 - RAB MEETING  
ACTION ITEMS

Item No.	Action Item	Due Date	Person/Agency Committing to Action Item	Resolution Status
Carry-Over Items				
1.	None			
New Items				
1.	New World Technologies and Foster Wheeler to report to Lynne Brown re: radiological remediation and survey information	May RAB	New World & Foster Wheeler	
2.	RASO provide air monitoring results for Building 253 rooftop scraping	May RAB	RASO	



## Hunters Point Shipyard HRA and Radiological Update 22 May 2003

Steve Doremus, Ph.D.  
Director, Environmental Programs

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## HRA & Radiological Update

- HRA
  - Newly discovered information
- Phase V Investigation

5/22/2003

HPS

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## Archive Review

- Archival records reviews complete
- All documents have been scanned and cataloged in RASO HRA database
- All documents have been reviewed
  - Documents vary in length from 1 to 300 pages
  - Documents include:
    - 2,366 written documents
    - 753 maps
    - 172 past interview summaries

5/22/2003

HPS

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## Interview Status

- 207 responses to advertisement to date
- 162 respondents identified as potential interviewees
  - 148 respondents contacted by phone / email
- 27 respondents selected for face-to-face interviews to be completed by 23 May
  - 17 completed to date
  - 5 will be completed this week
  - 5 will be conducted by telephone due to remote location

5/22/2003

HPS

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## HRA Timeline

- HRA is on-schedule
  - May 03: Finish Draft Final HRA
  - June 03: Issue Draft Final HRA for internal Navy review
  - July 03: HRA team incorporates comments from Navy reviewers
  - August 03: Distribute Draft Final HRA to Regulators and Public

5/22/2003

HPS

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## Newly Discovered Information

- Operation Crossroads tested two atomic weapons at Bikini Atoll in summer of 1946
  - Shot Able – air burst
  - Shot Baker – underwater burst
- 61 support ships and 18 target ships returned to HPS

5/22/2003

HPS

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## Target Ships

- 6 Target Ships towed to HPS
  - USS INDEPENDENCE (CV-22)
  - USS GASCONADE (APA-85)
  - USS CRITTENDEN (APA-77)
  - USS HUGHES (DD-410)
  - USS SKATE (SS-305)
  - USS SKIPJACK (SS-184)

5/22/2003
HPS
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## Target Ships (cont.)

- USS INDEPENDENCE, USS GASCONADE, AND USS CRITTENDEN remained at HPS for
  - Monitoring, testing, and decontamination
  - Trace amounts of fission products (cesium-137 and strontium-90) and plutonium were found in the fuel

5/22/2003
HPS
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## How Much Fuel?

- Total of 610,000 gallons estimated
  - USS INDEPENDENCE: 274,000 gallons
  - USS GASCONADE: 84,000 gallons
  - USS CRITTENDEN: 252,000 gallons

5/22/2003
HPS
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## Disposal of Fuel

- Many options considered
- Final decision was to burn fuel in HPS shore boilers - best method for disposal

5/22/2003

HPS

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## Safety Precautions

- Established by BUSHIPS/BUMED:
  - Use minimum handling equipment
  - Maintain excess air intake in boiler as high as practicable
  - Burn only at high combustion rates
  - Blow soot frequently
  - Check tightness of boiler casing
  - Avoid burning if raining
  - Monitor equipment when burning is complete
  - Monitor outdoors on HPS at locations downwind during burning

5/22/2003

HPS

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## Where and When?

- Where was fuel burned?
  - Shore boilers were located in Buildings 203 and 521
- When did the burning take place?
  - During the months of April, May, June, July and August 1947
  - Records do not specify the exact days that the fuel was burned

5/22/2003

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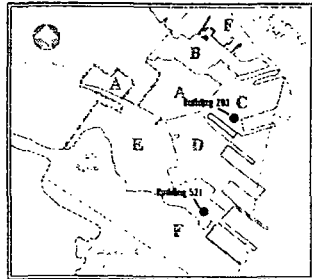
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## Buildings 203 and 521



5/22/2003

HPS

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## Radioactivity Release

- 99.9% of radioactive material in fuel was carried out with exhaust gases from boiler
- Boiler burn rate was 1300 cubic feet of air for every gallon of oil burned

5/22/2003

HPS

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## Radioactivity Release (cont.)

- Plutonium:
  - $6.45 \times 10^{-11}$   $\mu\text{g/cc}$  of air
- 1947 AEC Pu-239 tolerance air effluent concentration:
  - $5 \times 10^{-10}$   $\mu\text{g/cc}$  of air for 8 hour working day, six days per week for one year

5/22/2003

HPS

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## Radioactivity Release (cont.)

- **Plutonium:**
  - $3.99 \times 10^{-12}$   $\mu\text{Ci/mL}$  of air
- **2003 NRC comparable Pu-239 air effluent concentration :**
  - $2 \times 10^{-14}$   $\mu\text{Ci/mL}$  of air for 24 hours a day, seven days a week for one year

5/22/2003

HPS

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## Radioactivity Release (cont.)

- **Fission Products:**
  - $7.13 \times 10^{-10}$   $\mu\text{Ci/mL}$  of air
- **Unknowns:**
  - 1947 AEC limits for cesium-137 to strontium-90
  - Actual ratio of cesium-137 to strontium-90 in fission products
- **NRC Limits:**
  - Cs-137:  $2 \times 10^{-10}$   $\mu\text{Ci/mL}$
  - Sr-90:  $6 \times 10^{-12}$   $\mu\text{Ci/mL}$

5/22/2003

HPS

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## Exposure to Personnel

- **Gaussian Air Dispersion Model:**
  - Prevailing wind direction is WSW
  - Average wind speed is 12 miles/hour
  - Stack height is 50 feet
  - Receptor distance from stack is 250 feet
  - Amount of contamination consistent in fuel
  - 833 gallons/hour burn rate
- **Inside the boundary deposition:**
  - $5.9 \times 10^{-20}$   $\mu\text{Ci/mL}$

5/22/2003

HPS

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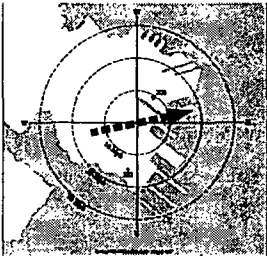
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## Exposure to Personnel (cont.)

Prevailing  
wind direction



5/22/2003
HPS
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## Exposure to Personnel (cont.)

- Using NRC release limit of:
  - $2 \times 10^{-14}$   $\mu\text{Ci/mL}$  equals 50 mrem/y
- Dose inside the boundary (250 ft from boiler) for person would be:
  - $2.5 \times 10^{-5}$  mrem
- No risk to HPS workers or local residents

5/22/2003
HPS
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## Phase V Investigation

- Navy continuing to work on site at HPS
- Current Focus:
  - Building 253
  - Building 366 (former Building 351B)

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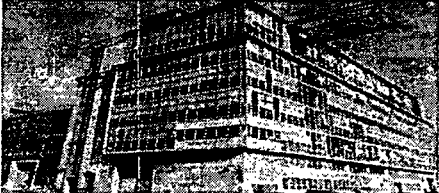
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## Building 253

- Former Shipyard Optical and Electronics Building



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## Building 253 (cont)

- Assessing the extent of contamination. Currently:
  - Screening equipment and furniture left in building
  - Investigating ventilation and piping systems

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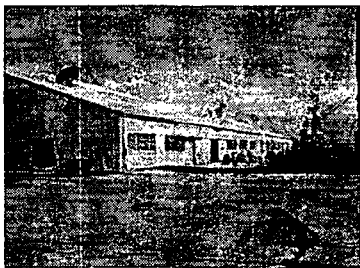
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## Building 366



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## Building 366 (cont.)

- **Former NRDL Building 351B**
  - Administration
  - X-ray Facility
  - Development of Instruments for radiation detection
- **Shipyard Building 366**
  - Used by various support shops
- **Currently leased by artists**

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## Building 366 (cont.)

- **Class 1 survey being conducted**
  - Working with artists to survey their cubicles
  - Surveys will include ventilation systems and piping
  - Surveys scheduled through 6 June

5/22/2003
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## Questions/Discussion

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HPS
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# **HUNTERS POINT SHIPYARD MONTHLY PROGRESS REPORT**

**APRIL 2003**

This monthly progress report (MPR) summarizes environmental restoration activities conducted by the Navy at Hunters Point Shipyard (HPS) during April 2003. This MPR is prepared in accordance with the HPS Federal Facility Agreement, Section 6.6. The MPR is presented in three sections: Section 1, Parcel Updates, summarizes key activities at each parcel completed during the past month and planned for the upcoming 2 months; Section 2, Schedule, identifies submittals, meetings, and field activities completed during the past month and planned for the upcoming 2 months; Section 3, Other, is intended for special announcements, changes in personnel, basewide issues, or other topics not included in Sections 1 or 2.

## **1.0 PARCEL UPDATES**

### **PARCEL B APRIL 2003 ACTIVITIES**

- Continued preparation of risk management review (RMR) summary report.
- Initiated preparation of five-year review document (to include brief update on basewide issues).
- Submitted responses to comments (RTC) on final sampling and analysis plan for shoreline data gaps investigation.
- Prepared and submitted final Parcel B waste consolidation summary report with RTCs.

### **PARCEL B MAY 2003 – JUNE 2003 ACTIVITIES**

- Conduct sampling for Parcel B shoreline data gaps.
- Continue preparation of the RMR summary report.
- Continue preparation of five-year review document, including performing a site inspection and conducting interviews.
- Prepare and submit RTCs for draft confirmation study summary report for the Phase II SVE treatability study at Building 123 (pending receipt/resolution of agency comments).
- Prepare RTCs for draft construction summary report (pending resolution of agency comments).

- Prepare and submit final annual groundwater monitoring report with RTCs.
- Prepare and submit draft January – March 2003 quarterly groundwater monitoring report.
- Conduct April – June 2003 quarterly groundwater sampling.
- Prepare and submit draft workplan for Ferox injection treatability study at Building 123 (study also to include follow-on work at Parcel C, Building 272).
- Continue preparation of the five-year review document.
- Prepare and submit RTCs for the groundwater evaluation technical memorandum.

#### **PARCEL C APRIL 2003 ACTIVITIES**

- Continued HHRA work in support of the RMR process and the draft Parcel C revised feasibility study (FS).
- Evaluated SVE performance data and began preparing confirmation sampling workplan for the Phase II SVE treatability study at volatile organic contaminant (VOC) areas (study also includes portions of Parcels B and E).
- Continued radiation screening surveys and radiation removal action at Building 253.
- Continued waste consolidation work.

#### **PARCEL C MAY 2003 – JUNE 2003 ACTIVITIES**

- Continue HHRA work in support of the RMR process and the draft Parcel C revised FS.
- Continue data evaluation and confirmation sampling workplan preparation for Phase II SVE treatability study at VOC areas.
- Continue radiation screening surveys and radiation removal action activities at Building 253.
- Continue waste consolidation work.
- Prepare cost and performance evaluation for Ferox injection technology demonstration at Building 272.
- Prepare and submit draft workplan for follow-on Ferox injection treatability study at Building 272 (study also to include work at Parcel B, Building 123).
- Prepare and submit draft workplan for sequential anaerobic/aerobic biological treatability study in Building 134.

- Prepare final report with RTCs for Phase III Groundwater Data Gaps Investigation (GDGI) activities at Parcel C (pending receipt/resolution of agency comments).

#### **PARCEL D APRIL 2003 ACTIVITIES**

- Continued HHRA work in support of the RMR process and the draft final Parcel D revised FS.
- Continued radiation removal action activities at Building 364 and performed radiation screening surveys at Building 366.
- Continued waste consolidation work.

#### **PARCEL D MAY 2003 – JUNE 2003 ACTIVITIES**

- Prepare responses to comments on draft Parcel D revised FS.
- Continue HHRA work in support of the RMR process and the draft final Parcel D revised FS. Begin data evaluation related to RMR process.
- Continue supplemental field work for radiological removal actions.
- Complete waste consolidation work. Prepare and submit draft Parcel D waste consolidation summary report.
- Prepare and submit underground storage tank (UST) closure request and documentation.

#### **PARCEL E APRIL 2003 ACTIVITIES**

- Continued field work for non-standard data gaps investigation and continued monthly monitoring of the landfill gas extraction system.
- Continued evaluation of SVE performance data for Phase II SVE treatability study at Building 406 (limited field activities in Parcel E).
- Continued radiation screening surveys.
- Continued waste consolidation work.
- Continued operation of groundwater extraction system at industrial landfill.
- Prepared and submitted RTCs for draft landfill cap operation and maintenance plan.
- Prepared and submitted RTCs for draft landfill storm water discharge management plan.

## **PARCEL E MAY 2003 – JUNE 2003 ACTIVITIES**

- Continue field work for the non-standard data gaps investigation, and continue monthly monitoring of the landfill gas extraction system.
- Continue evaluation of performance data for Phase II SVE treatability study at Building 406.
- Continue radiation screening surveys.
- Continue waste consolidation work.
- Continue operation of groundwater extraction system at industrial landfill.
- Prepare and submit report for Phase III GDGI activities at Parcel E (including radiological data).
- Prepare and submit draft reports for landfill gas characterization, landfill extent, landfill liquefaction potential, and wetlands delineation.
- Prepare and submit final landfill storm water discharge management plan (pending resolution of agency comments).
- Prepare and submit final landfill cap operation and maintenance plan (pending resolution of agency comments).
- Prepare interim data analysis document for Phases 1 and 2 of the standard data gaps investigation.
- Prepare draft shoreline characterization technical memorandum for the standard data gaps investigation.
- Prepare draft workplan for phyto-groundwater extraction treatability study at the industrial landfill.

## **PARCEL F APRIL 2003 ACTIVITIES**

- Continued preparation of responses to remainder of agency comments on draft validation study (VS) report.

## PARCEL F MAY 2003 – JUNE 2003 ACTIVITIES

- Continue preparation of responses to remainder of agency comments on draft VS report, and prepare draft final VS report.
- Conduct FS scoping meeting.

## 2.0 SCHEDULE

This section presents meetings and deliverables conducted and planned during this reporting period.

Activities Conducted	Date
Submitted draft BRAC business plan	April 2, 2003
Submitted final Parcel B waste consolidation summary report with RTCs	April 18, 2003
BCT monthly meeting	April 22, 2003
Submitted RTCs for draft Parcel E landfill cap operation and maintenance plan	April 22, 2003
Submitted RTCs for draft Parcel E landfill storm water discharge management plan	April 22, 2003
RAB meeting	April 24, 2003

Activities Planned	Date
Submit community relations plan interview summary	May 14, 2003
Submit draft Parcel E landfill gas characterization report	May 15, 2003
Submit draft Parcel E landfill extent report	May 15, 2003
Submit draft Parcel E wetlands delineation report	May 15, 2003
Submit final Parcel B annual groundwater monitoring report with RTCs	May 16, 2003
BCT monthly meeting	May 20, 2003
Submit Parcel E Phase III GDGI report	May 21, 2003
RAB meeting	May 22, 2003
Submit draft Parcel E landfill liquefaction potential report	May 30, 2003
Submit final Parcel E landfill cap operation and maintenance plan	May 30, 2003
Submit final Parcel E landfill storm water discharge management plan	May 30, 2003
Submit draft January – March 2003 quarterly groundwater monitoring report	May 30, 2003
Submit draft Parcel D waste consolidation summary report	June 6, 2003
Submit draft community relations plan	June 6, 2003
Submit RTCs for Parcel B groundwater evaluation technical memorandum	June 10, 2003
Submit draft workplan for sequential anaerobic/aerobic biological treatability study at Building 134	June 13, 2003



Activities Planned	Date
Submit draft workplan for follow-on Ferox injection treatability study at Buildings 123 and 272	June 23, 2003
BCT monthly meeting	June 24, 2003
Submit Parcel D UST closure request and documentation	June 25, 2003
RAB meeting	June 26, 2003
Submit final BRAC business plan*	June 2003
Submit RTCs for Building 123 SVE confirmation study summary report*	June 2003

Note:

\* Document submittal pending receipt and/or resolution of BCT comments

\*\* Tentative date

### 3.0 OTHER

- The Navy submitted RTCs for the draft historic radiological assessment (HRA), Volume II, on March 7, 2003. The Navy is conducting additional research and performing interviews with former workers in support of the draft final HRA.
- The Navy submitted the draft base realignment and closure (BRAC) business plan on April 2, 2003. The final BRAC business plan is scheduled for submittal in June 2003, pending receipt of BCT comments.
- The Navy completed interviews for the community relations plan (CRP) update on April 25, 2003. A preliminary summary of the interview results is planned for submittal on May 14, 2003, and the draft CRP is planned for submittal on June 6, 2003.
- The Navy is preparing a basewide groundwater monitoring plan that is planned for submittal in August 2003.

Technical and Risk Review Subcommittees  
5/20/03 Meeting Summary

Attendees: Lea Loizos, Kevyn Lutton, Karen Pierce, Clifton J. Smith

**I. Parcel B Five-Year Review**

The official public notice announcing the start of the 5-year review for the Parcel B Record of Decision (ROD) was published during the week of May 12-16 in both the Chronicle and the New Bayview. Ms. Loizos explained that under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act), a 5-year review is required if a remedial action is selected that results in any hazardous substances, pollutants, or contaminants remaining at the site, which is the case at Parcel B. According to CERCLA, the remedial action should be assessed at least every 5 years after the initiation of the remedial action to assure that human health and the environment are being protected by the remedial action that was chosen. (42 USC s. 9621(c)) The Parcel B 5-year review document must be presented to the EPA by July 8, 2003, at which point a 45-day comment period will begin. There will also be a public meeting to discuss the report. A brief review of the CERCLA process was also given to further explain the significance of a ROD.

**II. History of the Parcel B ROD**

In preparation for the upcoming 5-year review, the subcommittees reviewed the history of the Parcel B ROD that was signed in October 1997. The selected remedy called for the excavation of contaminated soils to a level that permits residential reuse. Since the signing of the ROD, there have been two Explanation of Significant Differences (ESD) signed, which altered the initial remedy. One of these changes included conducting a study to attempt to remove a VOC (volatile organic carbon) plume below Building 123 using soil vapor extraction. Excavation work at Parcel B stopped in August 2001.

**III. The Risk Management Review process**

Along with the upcoming 5-year review of the Parcel B ROD, the BCT began the Risk Management Review (RMR) process for Parcel B in February 2003 to assess the remaining risk on the parcel and to make some decisions about where to go next based on this remaining risk. It also provides an opportunity to make risk management decisions that unify cleanup with reuse.

An explanation was given of how the RMR process at Parcel B is being conducted and some of the concerns posed by the regulating agencies so far. Upcoming documents to look for related to this process include the Parcel B

RMR Summary Document, an AmJient/Trace Metals Study, which will compare amJient metal concentrations from area soi ls to those in Parcel B, and the Shoreline Data Gaps sampling results.

#### **IV. Latest HRA Update**

Concerns were raised aJout the information given in the most recent HRA Fact Sheet regarding the Jurning of fuel oils that were contaminated with plutonium - 239 and fission products. The group reviewed the latest availaJle data and devised a list of questions to pose at the RAB meeting on the subject.

#### **V. Next meeting**

Karen Pierce, Chair of the Risk Review SuJcommittee suggested comJining the tech and risk review suJcommi ttee meetings temporarily since the interests of the two groups coincide right now. Ideas for the next meeting: Reviewing the Phases 2 and 3 groundwater data for Parcel C in preparation for the upcoming Basewide Groundwater Monitoring Plan; and Reviewing the Parcel E Data Gaps documents that were released this week.

**HPS Membership & Bylaws Subcommittee Meeting Notes**  
**Meeting Minutes for 13 May 2003, 6-8pm**  
**San Francisco Public Library, Anna E. Waden Branch**

The subcommittee meeting was called to order by Keith Tisdell, RAB member and Subcommittee Leader, at 6:10pm. Additional RAB members in attendance at the meeting were Melita Rines. Also in attendance were Ronald Keichline, Innovative Technical Solutions, Inc. (ITSI), and Debra Moore, ITSI. Topics on the agenda: (1) clarifying 2-year term limits for RAB members and rules for renewal, (2) drafting revisions to HPS RAB Bylaws, and (3) discussion of upcoming RAB Community Co-chair nomination/election process.

**Agenda Item 1)** The subcommittee discussed the procedures for RAB member renewal. Per the HPS RAB Bylaws (Section 9, Term of Office), each community RAB member shall serve an initial two-year term, renewable indefinitely. Mr. Tisdell stated that the goal of this evening's subcommittee meeting shall be to establish procedures for the renewal process. From now on, all community RAB members will be sent a blank membership application 30 days prior to their two year anniversary date. An attached cover letter shall state that the member's term of office is nearing completion and that a new application will be required. The completed application will be due at the RAB meeting of their two-year anniversary date. For example, if a RAB member was appointed to the RAB in July 2001, a completed RAB member application will be due at the July 2003 RAB meeting. Completed renewal applications will be presented to the full RAB for formal reappointment. The Community Relations team from ITSI, in conjunction with the Membership & Bylaws Subcommittee, will handle mailing the applications and tracking their status.

The subcommittee also discussed what action should be taken should a RAB member fail to complete a new application prior to the expiration of their term of office. The subcommittee decided that in that event, the RAB member's voting privileges shall be immediately suspended and they will be given one extra month to complete an application. If a completed application is not submitted within 30 days of expiration of their term of office, the RAB member will be removed from the Board.

- **Note:** For RAB members currently exceeding their two-year term of office, the procedure will be the same as above. They will be given a blank application and 30 days to return it.
- **Note:** Renewing RAB members will **not** be required to attend a Membership & Bylaws Subcommittee meeting to have their application evaluated. Attendance at a Membership & Bylaws Subcommittee meeting will be optional for renewing RAB members.

**Agenda Item 2)** The subcommittee also prepared new revisions to the Bylaws, as directed by the RAB at the 24 April 2003 RAB meeting. The subcommittee will revised Section 17, Amendments to state that the Bylaws will only be modified once per year. A call for revisions will be announced each year at the August RAB meeting. The subcommittee will then prepare a draft revised Bylaws and present it at the September RAB meeting for formal discussion and vote. Consistent with the current Bylaws, written notice of the amendments and their terms will be given at least one week prior to the September RAB meeting. The Community Relations team from ITSI, in conjunction with the Membership & Bylaws Subcommittee, will mail the draft revised Bylaws to the RAB members.

- ***Motion to the RAB – Accept the Revised HPS RAB Bylaws (dated 05/22/03) as written.***

**Agenda Item 3)** The subcommittee discussed the upcoming Community Co-chair election. Per the Bylaws (Section 14, Election of Community Co-chair), the Community Co-chair shall serve a term of one year from July 1 to June 30. The subcommittee will recommend that Lynne Brown, the RAB Community Co-chair, announce at the start of the May RAB meeting that nominations for the Community Co-chair position should be made at the end of the meeting. Election ballots will be prepared and handed out at the June RAB meeting.

The subcommittee also discussed the merits of Instant Runoff Voting (IRV). After some discussion, the subcommittee has decided to endorse the use of IRV in situations of 3 or more Community Co-chair candidates.

The meeting adjourned at 7:05 p.m.

**Table 1**  
**Current and Pending RAB Members and Categories**

<b>Community Based Non-profit</b>	<b>Environmental Organizations</b>	<b>Local Businesses</b>	<b>Resident "at large"</b>
Barbara Bushnell (R.O.S.E.S.)	Lynne Brown (Communities First Coalition)	Lani Asher (Artist on the Shipyard)	Marie J. Franklin
Charles Dacus (R.O.S.E.S.)	Karen Pierce (HEAP)	Maurice Campbell (New Calif. Media, SF Bayview)	Kevyn Lutton
Helen Jackson (All Hallows Gardens)	Lea Loizos (ARC Ecology)	Marie Harrison (Green Action)	Keith Tisdell
Jesse Mason (Bayview Advocates)	Ahimsa Sumchai (Health & Env Resource Center)	Mitsuyo Hasegawa (JRM & Assoc.)	
Sulu Palega (HP Boys and Girls Club)	Ray Tompkins (BVHP Coalition on the Env.)	J.R. Manuel (JRM & Assoc.)	
Dorothy Peterson (Shoreview Residents Assoc.)		Leilani Wright (JRM & Assoc.)	
Melita Rines (India Basin Neighborhood Assoc.)		Georgia Oliva (Artist on the Shipyard)	
Caroline Washington (Network for Elders)		Harry Shin (pending RAB approval) (Associated Builders)	
<b>Category Total</b>	<b>Category Total</b>	<b>Category Total</b>	<b>Category Total</b>
<b>8 (Full)</b>	<b>5</b>	<b>8 (Full)</b>	<b>3</b>